

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
16 February 2006 (16.02.2006)

PCT

(10) International Publication Number
WO 2006/015513 A1

(51) International Patent Classification⁷: H04L 12/18

(21) International Application Number:
PCT/CN2004/000935

(22) International Filing Date: 12 August 2004 (12.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(71) Applicant (for all designated States except US): INTEL CORPORATION [US/US]; 2200 Mission College Blvd., Santa Clara, CA 95054-1549 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): HAN, Yongxiang [CN/CN]; #06-01, Beijing Kerry center, No. 1 Guanghua Road, Chaoyang District, Beijing 100020 (CN). SHAO, Wei [CN/CN]; Unit 5502, Diwang Comm, Or., 5002 Shennan Road East, Shenzhen, Guangdong 518008 (CN). DOU, Jian [CN/CN]; Unit 5502, Diwang Comm, Ctr, 5002 Shennan Road East, Shenzhen, Guangdong 518008 (CN). YUAN, Hang [CN/CN]; #06-01, Beijing Kerry center, No. 1 Guanghua Road, Chaoyang District, Beijing

100020 (CN). TANG, Jun [CN/CN]; Unit 5502, Diwang Comm, Ctr, 5002 Shennan Road East, Shenzhen, Guangdong 518008 (CN).

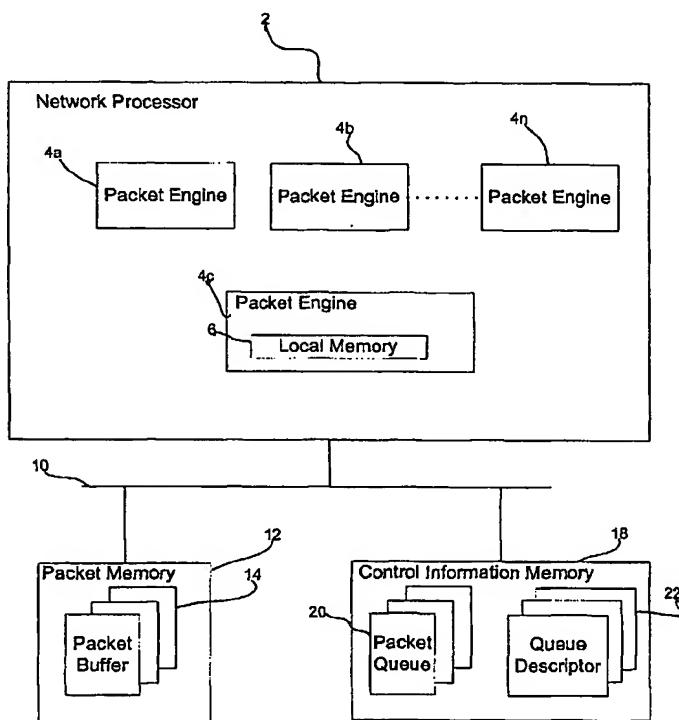
(74) Agent: CHINA PATENT AGENT (H.K.) LTD.; 22/F, Great Eagle Centre, 23 Harbour Road, Wanchai, Hong Kong (CN).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR PROCESSING MULTICAST PACKETS



(57) Abstract: Provided are a method, system, and program for processing multicast packets. A multicast packet is received to transmit to destination addresses. A payload of the multicast packet is written to at least one packet entry in a packet memory. Headers are generated for the destination addresses and at least one descriptor is generated addressing the at least one packet entry in the packet memory including the payload to transmit to the destination addresses. For each destination address, at least one indicator is generated including information on the generated header for the destination address and the at least one descriptor, wherein indicators for the destination addresses address the at least one descriptor.

WO 2006/015513 A1

WO 2006/015513 A1



European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— *with international search report*